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☐ 1. Search methods used with transistor patent applications

Cornog, June Roberts; Bryan, Herbert L.;

[Spectrum, IEEE](#)

Volume 3, [Issue 2](#), Feb. 1966 Page(s):116 - 121

Digital Object Identifier 10.1109/MSPEC.1966.5216902

Summary: As the world has become more technically oriented, the number of patent applications has been increasing also, too rapidly for the Patent Office to assimilate them comfortably with current techniques. When an application for a patent is received, it m.....

[AbstractPlus](#) | Full Text: [PDF\(1821 KB\)](#) IEEE JNL

[Rights and Permissions](#)

☐ 2. Visualization Enhanced Semantic Wikis for Patent Information

Giereth, M.; Ertl, T.;

[Information Visualisation, 2008. IV '08. 12th International Conference](#)

9-11 July 2008 Page(s):185 - 190

Digital Object Identifier 10.1109/IV.2008.50

Summary: In this paper we present a new approach for using semantic wikis for collaborative patent search and annotation. We describe an extension that allows integrating interactive visualizations into semantic wikis for getting deeper insights into the clas.....

[AbstractPlus](#) | Full Text: [PDF\(677 KB\)](#) IEEE CNF

[Rights and Permissions](#)

☐ 3. Improving patent retrieval system using ontology

Sung-Shin Lim; Sung-Won Jung; Hyuk-Chul Kwon;

[Industrial Electronics Society, 2004. IECON 2004. 30th Annual Conference of IEEE](#)

Volume 3, 2-6 Nov. 2004 Page(s):2646 - 2649 Vol. 3

Digital Object Identifier 10.1109/IECON.2004.1432223

Summary: The importance of patents is increasing as intellectual property becomes a core part of an industry. Most commercial patent retrieval systems are based on Boolean models, which are not capable of ranking similarity between queries and documents. In

[AbstractPlus](#) | Full Text: [PDF\(363 KB\)](#) IEEE CNF

[Rights and Permissions](#)

☐ 4. Information retrieval and knowledge discovery utilizing a biomedical patent semantic Web

Mukherjea, S.; Bamba, B.; Kankar, P.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 17, Issue 8, Aug. 2005 Page(s):1099 - 1110
Digital Object Identifier 10.1109/TKDE.2005.130

Summary: Before undertaking new biomedical research, identifying concepts that have already been patented is essential. A traditional keyword-based search on patent databases may not be sufficient to retrieve all the relevant information, especially for the biomedical field.

[AbstractPlus](#) | [Full Text: PDF\(776 KB\)](#) IEEE JNL
[Rights and Permissions](#)

5. Intelligent subject matter classification and retrieval

Legakis, L.; Nugent, J.; Bowen, D.G.; Bowen, J.;
Electrical and Computer Engineering, 1993. Canadian Conference on
14-17 Sept. 1993 Page(s):15 - 18 vol.1
Digital Object Identifier 10.1109/CCECE.1993.332247

Summary: This paper describes a research project entitled Expert Patent Search Assistant (EPSA) under contract with Consumer and Corporate Affairs Canada. The project developed a method of automating the expertise required to navigate the Canadian Patent Classification.

[AbstractPlus](#) | [Full Text: PDF\(412 KB\)](#) IEEE CNF
[Rights and Permissions](#)

6. Invention: the pitfalls of patent searches knowing about

Teska, K.;
Spectrum, IEEE
Volume 45, Issue 6, June 2008 Page(s):29 - 29
Digital Object Identifier 10.1109/MSPEC.2008.4531456

Summary: Knowing about patents can sometimes be worse than not knowing. You can learn a lot by searching patents, but what you learn can sometimes be dangerous. If a court should ever find that you infringed on a patent knowingly, you might have to pay triple damages.

[AbstractPlus](#) | [Full Text: PDF\(1015 KB\)](#) IEEE JNL
[Rights and Permissions](#)

7. Quantum computation patent mapping - a strategic view for the information technique of tomorrow

MuChiu Chang;
Services Systems and Services Management, 2005. Proceedings of ICSSSM '05. 2005 International Conference on
Volume 2, 13-15 June 2005 Page(s):1177 - 1181 Vol. 2
Digital Object Identifier 10.1109/ICSSSM.2005.1500183

Summary: Quantum computation, or quantum information in a more general terminology, is deemed information technique (IT) of next generation. Our research shows that the market of quantum information techniques has just begun and grows up steadily. Moreover, quantum information techniques will have a great impact on the future of information technology.

[AbstractPlus](#) | [Full Text: PDF\(344 KB\)](#) IEEE CNF
[Rights and Permissions](#)

8. The best patents of all

Emma, P.G.;
Micro, IEEE
Volume 26, Issue 2, March-April 2006 Page(s):84 - 84
Digital Object Identifier 10.1109/MM.2006.43

Summary: The author defined the most useful patent as the one whose principal element appears a essential element in more publications than any other patent. The author found three close contenders after an extensive literature search. The top two patents were related to the use of the word "method" in patent claims.

[AbstractPlus](#) | [Full Text: PDF\(238 KB\)](#) IEEE JNL
[Rights and Permissions](#)

9. Google Searches for Ad Dollars in Social Networks

Anderson, M.;

[Spectrum, IEEE](#)

Volume 45, Issue 12, Dec. 2008 Page(s):16 - 16

Digital Object Identifier 10.1109/MSPEC.2008.4687355

Summary: The U.S. Patent and Trademark Office recently published a series of intriguing patent applications from Google. They raise questions about the search giant's significance for the profitability of social networks, and whether anyone has figured out how.....

[AbstractPlus](#) | Full Text: [PDF\(1314 KB\)](#) IEEE JNL

[Rights and Permissions](#)

10. An Information System for Petroleum Engineering Technology

Martinez, Samuel J.;

[Engineering Writing and Speech, IEEE Transactions on](#)

Volume 13, Issue 2, Sept. 1970 Page(s):60 - 64

Digital Object Identifier 10.1109/TEWS.1970.4322441

Summary: The current technology of the exploration and production segment of the petroleum industry is comprehensively reviewed by the Information Services Department of The University of Tulsa, and abstracts of pertinent articles and patents, domestic and foreign.....

[AbstractPlus](#) | Full Text: [PDF\(1418 KB\)](#) IEEE JNL

[Rights and Permissions](#)

11. NP tree matching for English-Chinese translation of patent titles

Dongfeng Cai; Xiaoqing Lin; Duo Ji; Jie Yang;

[Natural Language Processing and Knowledge Engineering, 2008. NLP-KE '08. International Conference on](#)

19-22 Oct. 2008 Page(s):1 - 7

Digital Object Identifier 10.1109/NLPKE.2008.4906759

Summary: This paper proposes a method of NP tree matching to realize the translation of English-Chinese patent titles. Firstly a bilingual example database for patent titles is built. English parse trees produced by English parser, forming NP tree databases.....

[AbstractPlus](#) | Full Text: [PDF\(275 KB\)](#) IEEE CNF

[Rights and Permissions](#)

12. An Algorithm for Classifying Articles and Patent Documents Using Link Structure

Indukuri, K.V.; Mirajkar, P.; Sureka, A.;

[Web-Age Information Management, 2008. WAIM '08. The Ninth International Conference on](#)

20-22 July 2008 Page(s):203 - 210

Digital Object Identifier 10.1109/WAIM.2008.31

Summary: Studying link structure of the World Wide Web (WWW) is an area which has attracted a lot of interest. Several papers have been published on structural analysis of hyperlinked environments such as the WWW. The WWW can be modeled as a graph and valuable.....

[AbstractPlus](#) | Full Text: [PDF\(420 KB\)](#) IEEE CNF

[Rights and Permissions](#)

13. The Application and Research of Ontology Construction Technology

Wenwen Yi; Yong Sun; Shukui Zhang; Yingfeng Wu; Zhenhua Chu;

[Knowledge Discovery and Data Mining, 2008. WKDD 2008. International Workshop on](#)

23-24 Jan. 2008 Page(s):618 - 623

Digital Object Identifier 10.1109/WKDD.2008.108

Summary: In the field of search, the application of ontology is an important research topic. Introduction of ontology technology in the retrieval system with massive data can make the searching results more comprehensive. However, now days the ontology is controversial.....

[AbstractPlus](#) | Full Text: [PDF\(528 KB\)](#) IEEE CNF

[Rights and Permissions](#)

14. Dynamics of Innovation Strategies in the Optical Memories Industry: Analysis Based on Patent Indicators

Io Storto, C.;

[Management of Engineering and Technology, Portland International Center for](#)

5-9 Aug. 2007 Page(s):91 - 104

Digital Object Identifier 10.1109/PICMET.2007.4349322

Summary: Technological innovation is characterized by a searching activity of optimal alternatives which is fundamentally dominated by an intense activity addressed to identify and solve technical problems. Components recombination is a very efficient source.....

[AbstractPlus](#) | Full Text: [PDF\(6345 KB\)](#) IEEE CNF

[Rights and Permissions](#)

15. In-memory storage and search system for event management in network security

Yuan Fan; Xiao Su;

[Information Technology: Coding and Computing, 2005. ITCC 2005. International Conference on Volume 2, 4-6 April 2005 Page\(s\):734 - 739 Vol. 2](#)

Digital Object Identifier 10.1109/ITCC.2005.174

Summary: The performance of network security applications greatly depends on the amount of network-related events that can be kept in memory. Storing a larger number of events in memory can facilitate tasks like correlation analysis in intrusion detection, log.....

[AbstractPlus](#) | Full Text: [PDF\(160 KB\)](#) IEEE CNF

[Rights and Permissions](#)

16. Knowledge Sharing and Value Flow in the Software Industry: Searching the Patent Citation Network

Dreyfus, D.; Iyer, B.;

[System Sciences, 2005. HICSS '05. Proceedings of the 38th Annual Hawaii International Conference on System Sciences, 2005. HICSS '05. Proceedings of the 38th Annual Hawaii International Conference on 03-06 Jan. 2005 Page\(s\):87a - 87a](#)

Digital Object Identifier 10.1109/HICSS.2005.379

Summary: A firm's innovative capabilities depend on its ability to learn from the environment. To learn from the environment a firm must have access to external knowledge, and it must have the absorptive capacity to identify, assimilate and exploit such knowledge.....

[AbstractPlus](#) | Full Text: [PDF\(168 KB\)](#) IEEE CNF

[Rights and Permissions](#)

17. Patents: untapped sources of technical information

Shlaes, C.;

[Technology Management : the New International Language, 1991](#)

27-31 Oct. 1991 Page(s):583

Digital Object Identifier 10.1109/PICMET.1991.183729

Summary: Summary form only given. The author has considered the importance of patent information, the types of information available, and how a technology manager can use this information to benefit his company. It is noted that patent information can guard a.....

[AbstractPlus](#) | Full Text: [PDF\(76 KB\)](#) IEEE CNF

[Rights and Permissions](#)

18. The perils of picking a trademark

Klee, M.M.;

[Engineering in Medicine and Biology Magazine, IEEE](#)

Volume 17, Issue 5, Sept.-Oct. 1998 Page(s):140, 149

Digital Object Identifier 10.1109/51.715498

Summary: As anyone who has done it knows, picking a trademark is hard to do. First, there are the marketing considerations—a good mark can make a good product or service sell even better. Then there are the legal issues. Some marks are not entitled to legal protection.....

[AbstractPlus](#) | Full Text: [PDF\(328 KB\)](#) IEEE JNL

[Rights and Permissions](#)

19. Do-it-yourself patents

Loebner, H.;

[Spectrum, IEEE](#)

Volume 43, Issue 4, April 2006 Page(s):68 - 70

Digital Object Identifier 10.1109/MSPEC.2006.1611764

Summary: This paper provides some important advice on how you can write and apply for your own patent without the help of a lawyer. Some of the useful advice given include conducting extensive patent searches via the Internet, purchasing software for correct.....

Full Text: [PDF\(772 KB\)](#) IEEE JNL

[Rights and Permissions](#)

20. Measuring Similarities between XML Documents Based on Content and Structure

Xiaoling Xia; Yongming Guo; Jiajin Le;
[Information Processing, 2009. APCIP 2009. Asia-Pacific Conference on](#)
 Volume 1, 18-19 July 2009 Page(s):459 - 462
 Digital Object Identifier 10.1109/APCIP.2009.119

Summary: Extended Marked-up Language (XML) has become a de facto standard for information representation and data exchange over the Web. As a result, large amounts of XML documents emerge in many application areas, such as Digital library, patent retrieval and.....

[AbstractPlus](#) | Full Text: [PDF\(317 KB\)](#) IEEE CNF

[Rights and Permissions](#)

21. Multivariate Patent Similarity Detection

Kasravi, K.; Risov, M.;
[System Sciences, 2009. HICSS '09. 42nd Hawaii International Conference on](#)
 5-8 Jan. 2009 Page(s):1 - 8
 Digital Object Identifier 10.1109/HICSS.2009.318

Summary: As patent filings and litigations increase, there is an increasing demand for more effective detection of similarities among patents, leading to better prior art search, market gap analysis, infringement detection, legal discovery, and litigation support.....

[AbstractPlus](#) | Full Text: [PDF\(327 KB\)](#) IEEE CNF

[Rights and Permissions](#)

22. Understanding the implications of the Patent Reform Act of 2007

Rubin, S.;
[Systems, Applications and Technology Conference, 2008 IEEE Long Island](#)
 2-2 May 2008 Page(s):1 - 5
 Digital Object Identifier 10.1109/LISAT.2008.4638944

Summary: The Patent Reform Act of 2007 is touted as the most significant modification to the Patent Statute in the past 50 years. Its impetus, in theory, is to respond to the "broken" patent system, and its goals are to improve patent quality and the patent system.....

[AbstractPlus](#) | Full Text: [PDF\(80 KB\)](#) IEEE CNF

[Rights and Permissions](#)

23. TOPICA project. Towards the total system for presentation and invention by creativity-acceleration

Kawagoe, M.; Yamaguchi, T.; Aoyama, H.;
[System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii International Conference on](#)
 Volume 4, 2-5 Jan. 1990 Page(s):389 - 397 vol.4
 Digital Object Identifier 10.1109/HICSS.1990.205283

Summary: The authors introduce the TOPICA project which attempts to build an idea-accelerator to support human creativity near the origin of ideas. Specifically, TOPICA attempts to discover the novelty and superiority of an idea and to create a persuasive presentation.....

[AbstractPlus](#) | Full Text: [PDF\(516 KB\)](#) IEEE CNF

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24. Exploring Cognitive Difference in Education using Average Path Length of Concept Map

Yan-Ru Li; Guo-En Tong; Chao-Fu Hong; Leuo-hong Wang;
[Systems, Man and Cybernetics, 2006. SMC '06. IEEE International Conference on](#)
 Volume 3, 8-11 Oct. 2006 Page(s):2133 - 2136
 Digital Object Identifier 10.1109/ICSMC.2006.385176

Summary: Patent research is one of the most important processes to understand the state of the art

research and development. However, traditional searching strategies are not systematic in an effective way. This paper proposes a heuristic method for patent search.

[AbstractPlus](#) | [Full Text: PDF\(2131 KB\)](#) | [IEEE CNF](#)
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25. Dynamic Change of a Multi-Agent Workflow for Patent Invention Utility Function

Szu-Yin Lin; Bo-Yuan Chen; Hsien-Tzung Wu; Von-Wun Soo; Ku, C.C.;
[Computer Supported Cooperative Work in Design, 2007. CSCWD 2007. 11th International Conference on](#)

26-28 April 2007 Page(s):389 - 394

Digital Object Identifier 10.1109/CSCWD.2007.4281467

Summary: Patent invention includes various types of knowledge processing tasks such as patent document analysis, patent search, patent classification, patent valuation, to ensure the usefulness and novelty of the new patent invention. In the past, patent invention...

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